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# Using Google Forms to Inform Teaching Practices

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# Using Google Forms to Inform Teaching Practices

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**Purpose:** This presentation discusses several uses of Google Forms to gather data, engage student learning, and create and score assessments. Additionally, participants will learn how to shorten an URL link with a desired name and generate a QR code for instant access to the link.

# Using Google Forms to Benefit Classroom Environment

- Getting to Know You Survey:

Please use the following link to complete a survey:

<http://bit.do/stem18pre>



# Benefit Classroom Environment

Ways to increase classroom environment:

- Surveying students outside of class
- Collecting responses in the moment
- Collecting self-reflections after a lesson
- Exit ticket
- Check student attendance, especially in large lecture hall classrooms

# Benefit Classroom Environment

Part of a “Getting to Know You” Survey in Google Forms:

What are some of your interests and activities? \*

Your answer

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Name the last math class taken and where (e.g., college algebra at GSU). \*

Your answer

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Indicate your math experience as a LEARNER in \*

	Very negative	Somewhat negative	Neutral	Somewhat positive	Very positive
Grades K-5	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Grades 6-8	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Grades 9-12	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Current courses (in college)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Why do you want to be a teacher? \*

Your answer

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# Using Google Forms to Benefit Learning

- Gauge students' pre-existing knowledge
- Identify misconceptions
- Engage students in discussion

# Benefit Learning

*Example of gauging students' pre-existing knowledge and identifying misconceptions:*

Question from Carnegie Learning (2011):

- Given prior a measurement lesson
- Half of the students correctly identified the appropriate units for Figure A
- Led to a discussion of dimensions and why units of an area are square but not linear nor cubic

Which is the best measurement to describe the area of Figure A? \* 1 point

Figure A: A rectangle with a height of 3 cm and a length of 20 cm.

Figure B: A rectangle with a height of 14 in. and a width of 8 in.

Figure C: A cylinder with a radius of 3 cm and a height of 10 cm.

Figure D: A rectangular prism with a length of 5 cm, a width of 7 cm, and a height of 2 cm.

60 cubic centimeters

60 square centimeters

60 centimeters

# Benefit Learning

*Example of higher-order thinking:*

Question adapted from Beckmann (2011):

- Non multiple-choice
- 3 out of 23 answered correctly
- Instructor's perspective: Respond quickly to students' confusion
- Students' perspective: Able to discuss the responses, confront their own conceptions and thinking and their classmates'

Which of the following describe the same area? (Type complete sentences; for example, "g and h describe the same area.") \* 0 points

- a)  $3 \text{ in}^2$
- b) A 9-inch-by-9-inch square
- c) 9 square inches
- d) A 3-inch-by-3-inch square
- e)  $9 \text{ in.} \times 9 \text{ in.}$
- f)  $9 \text{ in}^2$

Your answer \_\_\_\_\_



# Benefit Assessment

- Please use the following link to complete a quiz:

<http://bit.do/stem18quiz>



# Benefit Assessment

- Allow faculty to assess how well students understand material
- Give students immediate feedback, allow them to begin questioning their understanding and asking for help

The screenshot shows a settings interface for quizzes. At the top, there are three tabs: 'GENERAL', 'PRESENTATION', and 'QUIZZES', with 'QUIZZES' being the active tab. Below the tabs, there is a toggle switch labeled 'Make this a quiz' which is currently turned on. Below this, there is a section titled 'Quiz options' with a sub-section 'Release grade:' containing two radio button options: 'Immediately after each submission' (selected) and 'Later, after manual review' (unselected). Below that is a sub-section 'Respondent can see:' with three checked checkboxes: 'Missed questions', 'Correct answers', and 'Point values'. At the bottom right of the settings area, there are 'CANCEL' and 'SAVE' buttons.

**Settings**

GENERAL PRESENTATION **QUIZZES**

Make this a quiz  
Assign point values to questions and allow auto-grading.

**Quiz options**

**Release grade:**

Immediately after each submission

Later, after manual review  
Turns on email collection

**Respondent can see:**

Missed questions ?

Correct answers ?

Point values ?

CANCEL SAVE

# Limitation of Google Forms

- Do not allow mathematical symbols
- No formatting options
- Students may get distracted easily when having their smartphones or laptops in front of them

# Reflections

- Please take a moment to reflect on our session today:

<http://bit.do/stem18ref>

QR Code:



<http://bit.do/stem18ref>